

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

USA Patent Application
Klaus Kronenberg, et al
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ELECTRIC MOTOR, IN PARTICULAR A FAN MOTOR
Examiner: Hanh N. Nguyen
Group art unit: 2834

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Group art unit: 2834

Commissioner for Patents
Alexandria, VA 22313-1450

S I R :

PROPOSED AMENDMENTS FOR DISCUSSION


(NOT TO BE ENTERED)

22. (proposed amendment) An electric motor having a stator and a rotor, with the rotor having at least one permanent magnet and one rotor shaft and with the stator having at least two coils which produce a rotating magnetic field when alternating currents flow through said two coils, by which the rotor is drivable, and the rotor shaft is mounted radially and axially, wherein the rotor (4) is mounted by a first elastic thrust ring and a second elastic thrust ring (1a, 1b), with the first thrust ring (1a) being arranged axially on a first side of the rotor (4) and the second thrust ring (1b) being arranged axially on a second side of the rotor to mount the rotor axially in a floating manner, and wherein at least one of the first and the second sides of the rotor terminates in a flat surface that is perpendicular to an axis of rotation of the rotor and abuts a first surface of a corresponding one of the first and the second

thrust rings upon an axial movement of the rotor toward the corresponding one of the thrust rings, and wherein the stator has a flat surface that abuts a second surface of the corresponding thrust ring to oppose the axial movement of the rotor.

23. (proposed amendment) An electric motor having a stator and a rotor, with the rotor having at least one permanent magnet and one rotor shaft and with the stator having at least two coils which produce a rotating magnetic field when alternating currents flow through said two coils, by which the rotor is drivable, and the rotor shaft is mounted radially and axially, wherein the rotor (4) is mounted by a first thrust ring (1a) arranged axially on one side of the rotor (4), wherein a second thrust ring (1b) is arranged on another side of the rotor (4), and, depending on position of said rotor, the rotor (4) either loads the first or second elastic thrust ring (1a, 1b) continuously, or loads, the first and second thrust ring (1a, 1b) alternately, and wherein at least one of the first and the second sides of the rotor terminates in a flat surface that is perpendicular to an axis of rotation of the rotor and abuts a first surface of a corresponding one of the first and the second thrust rings upon an axial movement of the rotor toward the corresponding one of the thrust rings, and wherein the stator has a flat surface that abuts a second surface of the corresponding thrust ring to oppose the axial movement of the rotor.

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